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wherein B is cytosine or 5-fluorocytosine and R is selected from the group comprising H, monophosphate, diphosphate, triphosphate, carbonyl substituted with a C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{6-10} aryl, and

wherein each Rc is independently selected from the group comprising H, C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl and hydroxy protecting groups, and wherein said compound is substantially in the form of the (-) enantiomer; and

administering doxorubicin to a patient

Please add the following new claims as follows:

22. A method for treating leukemia in a host comprising administering to the host having leukemia a therapeutically effective amount of at least one compound of general formula I

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wherein B is cytosine or 5-fluorocytosine and R is selected from the group comprising H, monophosphate, diphosphate, triphosphate, carbonyl substituted with a C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{6-10} aryl, and

wherein each Rc is independently selected from H, C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl and hydroxy protecting groups, and wherein said compound is substantially in the form of the (-) enantiomer; and

also administering to said patient a chemotherapeutic agent selected from Asparaginase, Bleomycin, Busulfan, Carmustine, Chlorambucil, Cladribine, Cyclophosphamide, Cytarabine, Dacarbazine, Daunorubicin, Doxorubicin, Etoposide, Fludarabine, Gemcitabine, Hydroxyurea, Idarubicin, Ifosfamide, Lomustine, Mechlorethamine, Melphalan, Mercaptopurine, Methotrexate, Mitomycin, Mitoxantrone, Pentostatin, Procarbazine, 6-Thioguanine, Topotecan, Vinblastine, Vincristine, Dexamethasone, Retinoic acid and Prednisone.

- 23. A method according to claim 22, wherein said at least one chemotherapeutic agent is Cytarabine.
- 24. A method according to claim 22, wherein said at least one chemotherapeutic agent is Idarubicin.
- 25. A method according to claim 22, wherein said at least one chemotherapeutic agent is Gemcitabine.
- 26. The method according to claim 22, wherein the leukemia is chronic myelogenous leukemia.
- 27. The method according to claim 22, wherein the leukemia is acute myelogenous leukemia.
- 28: The method according to claim 22, further comprising the step of administering a multidrug resistance reversing agent or a biological response modifier.
- 29. The method according to claim 28, wherein the multidrug resistance agent is PSC 833.
- 30. The method according to claim 28, wherein the biological response modifiers are selected from the group consisting of monoclonal antibodies and cytokines.

- 31. The method according to claim 28, wherein the cytokines are selected from the group consisting of interferons, interleukins and colony-stimulating factors.
- 32. The method according to claim 28, wherein the biological response modifiers are selected from the group consisting of Rituxan, CMA-676, Interferon-alpha recombinant, Interleukin-2, Interleukin-3, Erythropoetin, Epoetin, G-CSF, GM-CSF, Filgrastim, Sargramostim and Thrombopoietin.
- 33. A method according to claim 22, wherein the compound of formula I and the at least one chemotheropeutic agent are administered sequentially.
- 34. A method according to claim 22, wherein the compound of formula I and the at least one chemotheropeutic agent are administered simultaneously.

